

SECRET**PRIMARY**

1971 MAR 18 17 57Z

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SECRET 181606Z MAR 71 CITE [REDACTED]

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25X1

SUBJECT: OUT OF FOCUS PHOTOGRAPHY

1. [REDACTED] HAVE DISCUSSED AGENDA FOR MEETING WITH [REDACTED] PERSONNEL AND ARE PREPARED TO BRIEF [REDACTED] ON WORK BEING STUDIED UNDER [REDACTED] R&D PROGRAM. THIS PROGRAM AIMS AT COMPENSATING FOR IMAGE DEGRADATION OCCURRING DURING ACQUISITION BY THE USE OF OPTICAL, DIGITAL, PHOTOGRAPHIC AND ELECTRONIC TECHNIQUES. DURING FY-71, CONTRACTUALLY SUPPORTED IN-HOUSE EXPERIMENTS WERE CONDUCTED ON DIGITAL AND OPTICAL MANIPULATION OF OPERATIONAL PHOTOGRAPHY. THESE EXPERIMENTS HAVE PROVED TO BE SUCCESSFUL ON A LIMITED SCALE AND FURTHER APPLICATION IS IN PROCESS. THE OPTICAL FILTERS USED CAN BE COMPLEX, CONSISTING OF PHASE AND AMPLITUDE CORRECTIONS USED FOR BLUR AND DEFOCUS CORRECTIONS. FREQUENCY, NOISE AND CONTRAST CONTROLS ARE BEING DEVELOPED WHICH ALLOW IMPROVEMENT AT VERY LOW CONTRAST PERMITTING THE USE OF LOWER POWERED OBJECTIVES WITH LARGER FORMATS.

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2. DIGITAL DEBLURRING WORK HAS BEEN DONE BY [REDACTED] AT SCRIPPS AND IS IN THE FOURIER DOMAIN USING AN IBM 360/44 AND AN IBM 360/67 AT [REDACTED]

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DIA-AP	25X1
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HEADQUARTERS. A NEW OUTPUT DISPLAY IS NOW BEING INSTALLED HERE CONSISTING OF A PEP 400 VIDEO DEVICE ON-LINE TO THE 360/67. PRESENT WORK INCLUDES A COMPREHENSIVE TEST OF THE SCRIPPS SOFTWARE WITH A WIDE VARIETY OF OPERATIONAL MATERIALS, CONVERSION OF THE SOFTWARE PACKAGE FROM A SCIENTIST TO A TECHNICIAN MODE, STUDIES TO PREDICT THE DEGREE OF ENHANCEMENT POSSIBLE, AND PRELIMINARY WORK ON POTENTIAL OF MANIPULATING COLOR MATERIALS.

3. [REDACTED] WILL BE IN [REDACTED] ON THE 22ND, AND IN [REDACTED] ON THE 23RD AND 24TH. PRESENT PLANS ARE TO RETURN TO [REDACTED] ABOUT NOON ON 24TH TO HAVE AFTERNOON FREE TO MEET ON THIS PROBLEM. WILL BE STAYING AT CONSUL HOTEL AND LEAVING MORNING OF 25TH FOR [REDACTED] SCHEDULE PROHIBITS DELAYING DEPARTURE.

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GP-1

END OF MESSAGE

ADVANCE CY
SANITIZED
WITH TEXT

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